

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

**Evaluate Using Power Rule**

Find the value of the following logarithms:

Work Space

$$\log_2 2^6$$

Answer: \_\_\_\_\_

$$-3 \log_3 3^4$$

Answer: \_\_\_\_\_

$$\log_{10} 1000^{\frac{1}{3}}$$

Answer: \_\_\_\_\_

$$9 \log_5 625^{\frac{1}{4}}$$

Answer: \_\_\_\_\_

$$5 \log_4 \sqrt[3]{64}$$

Answer: \_\_\_\_\_

Student Name: \_\_\_\_\_

Score:

### Answers

$$\log_2 2^6$$

Answer: 6

$$-3 \log_3 3^4$$

Answer: -12

$$\log_{10} 1000^{\frac{1}{3}}$$

Answer: 1

$$9 \log_5 625^{\frac{1}{4}}$$

Answer: 9

$$5 \log_4 \sqrt[3]{64}$$

Answer: 5